Statement of Basis of the Federal Operating Permit

EnCana Oil & Gas (USA) Inc.

Site Name: Burda Golden Production Facility
Physical Location: 1.6 miles south of the intersection of CR 269 and CR 359
Nearest City: Gillett
County: Karnes

Permit Number: O3847 Project Type: Minor Revision

The North American Industry Classification System (NAICS) Code: 211120
NAICS Name: Crude Petroleum Extraction

This Statement of Basis sets forth the legal and factual basis for the draft changes to the permit conditions resulting from the minor revision project in accordance with 30 TAC §122.201(a)(4). The applicant has submitted an application for a minor permit revision per §§ 122.215-217. This document includes the following information:

A description of the facility/area process description;

A description of the revision project;

A basis for applying permit shields;

A list of the federal regulatory applicability determinations;

A table listing the determination of applicable requirements;

A list of the New Source Review Requirements;

The rationale for compliance assurance methods selected; and

A list of available unit attribute forms.

Prepared on: January 30, 2018

Operating Permit Basis of Determination

Description of Revisions

The permit was revised as follows:

- 1. The permit issuance date for Standard Permit 104730 was updated to August 11, 2017 in the New Source Review Authorization References Table to reflect the date the registration was revised.
- 2. Emission Unit IDs HTR-10A and HTR-11A were updated to HTR-10 and HTR-11 to match the designation for these heater treaters used in the Standard Permit authorization.
- 3. Emission unit group GRP-VRUCOMP was renamed to GRP-SCOMP (consisting of screw compressors VRUCOMP-01, EVRUCOMP-01, EVRUCOMP-02, and EVRUCOMP-03) in the Permit Shield table.
- 4. Emission unit group GRP-ENGCOMP (consisting of reciprocating compressors ENGCOMP-01, 02, 03, 04, 05A, 06, 07A, 08, 09, 13) was removed from the Unit Summary and Applicable Requirements Summary tables. These compressors are not subject to 40 CFR Part 60, Subpart OOOO or Subpart OOOOa as they are located at a well site and are not affected facilities as stated in 40 CFR § 60.5365(c) and § 60.5365a(c).
- 5. CAM requirements were added in the Additional Monitoring Requirement tables for engines ENG-02, ENG-04, ENG-05A, ENG-06, ENG-07A, and ENG-13 to monitor exhaust NOx and CO concentrations once per quarter for demonstrating compliance with the emission limits in Standard Permit 104730.
- 6. The applicability of 40 CFR Part 60, Subpart OOOOa was added to the Unit Summary and Applicable Requirements Summary Tables for emission units FUG-PC for pneumatic controllers and FUG for fugitive components and pneumatic pumps.

Permit Area Process Description

The Burda Golden Production Facility receives a three-phase stream from offsite production wells via pipeline to separators. Liquids from the separators are sent to heater treaters which heat the stream enabling further separation of gas from the oil/condensate and produced water.

The produced water from the separators and the heater treaters is routed to a heater treater for further separation of oil and sent to the produced water storage tanks. The oil/condensate from the heater treaters is routed to the vapor recovery towers (VRTs) for further stabilization and then to the oil/condensate storage tanks. The oil/condensate flashes in heater treaters and VRTs prior to the tanks. The oil/condensate is removed from the tanks by pipeline or loaded into trucks. Produced water is loaded into trucks for transport offsite.

Flashed gas off the VRTs is hard-piped to and compressed by vapor recovery unit (VRU) compressors, driven by electric or natural gas-powered engines. Flashed gas off the VRTs may also be routed to the process flare. Flashed gas off the heater treaters, low pressure drip scrubber, and VRUs is compressed by the flash gas compressor, driven by a natural gas-powered engine. Flashed gas off of the heater treaters and the low pressure drip scrubber may also be routed to the utility flare. Gas off the inlet separators is either sent directly to the utility flare, gas sweetening unit, or compressed by the IP compressors, driven by natural gas-powered engines. Gas off the IP and flash gas compressors is routed to coolers, driven by natural gas-powered engines, and then to a scrubber. Any liquids off the cooler scrubber are routed through a line heater, a low pressure drip scrubber and a drip VRT for stabilization and then to the oil/condensate storage tanks.

Following the cooler scrubber, the produced gas is treated in a gas sweetening unit (a closed vessel with no associated emissions) and a glycol unit. A fraction of the sweetened gas is routed to a fuel conditioning skid and used on site for fuel. The remaining gas is sent to the sales pipeline or used for gas lift.

Other sources of emissions include piping fugitive emissions, catalytic heaters used in various operations at the site, and planned MSS activities.

FOPs at Site

The "application area" consists of the emission units and that portion of the site included in the application and this permit. Multiple FOPs may be issued to a site in accordance with 30 TAC § 122.201(e). When there is only one area for the site, then the application information and permit will include all units at the site. Additional FOPs that exist at the site, if any, are listed below.

Additional FOPs: None

Major Source Pollutants

The table below specifies the pollutants for which the site is a major source:

Major Pollutants VOC, NO _X , CO			
	ľ	Major Pollutants	VOC, NO _x , CO

Reading State of Texas's Federal Operating Permit

The Title V Federal Operating Permit (FOP) lists all state and federal air emission regulations and New Source Review (NSR) authorizations (collectively known as "applicable requirements") that apply at a particular site or permit area (in the event a site has multiple FOPs). **The FOP does not authorize new emissions or new construction activities.** The FOP begins with an introductory page which is common to all Title V permits. This page gives the details of the company, states the authority of the issuing agency, requires the company to operate in accordance with this permit and 30 Texas Administrative Code (TAC) Chapter 122, requires adherence with NSR requirements of 30 TAC Chapter 116, and finally indicates the permit number and the issuance date.

This is followed by the table of contents, which is generally composed of the following elements. Not all permits will have all of the elements.

- General Terms and Conditions
- Special Terms and Conditions
 - Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting
 - Additional Monitoring Requirements
 - New Source Review Authorization Requirements
 - Compliance Requirements
 - Protection of Stratosphere Ozone
 - Permit Location
 - Permit Shield (30 TAC § 122.148)
- Attachments
 - Applicable Requirements Summary
 - Unit Summary
 - Applicable Requirements Summary
 - Additional Monitoring Requirements
 - Permit Shield
 - New Source Review Authorization References
 - o Compliance Plan
 - o Alternative Requirements
- Appendix A
 - Acronym list

General Terms and Conditions

The General Terms and Conditions are the same and appear in all permits. The first paragraph lists the specific citations for 30 TAC Chapter 122 requirements that apply to all Title V permit holders. The second paragraph describes the requirements for record retention. The third paragraph provides details for voiding the permit, if applicable. The fourth

paragraph states that the permit holder shall comply with the requirements of 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit. The fifth paragraph provides details on submission of reports required by the permit.

Special Terms and Conditions

Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting. The TCEQ has designated certain applicable requirements as site-wide requirements. A site-wide requirement is a requirement that applies uniformly to all the units or activities at the site. Units with only site-wide requirements are addressed on Form OP-REQ1 and are not required to be listed separately on a OP-UA Form or Form OP-SUM. Form OP-SUM must list all units addressed in the application and provide identifying information, applicable OP-UA Forms, and preconstruction authorizations. The various OP-UA Forms provide the characteristics of each unit from which applicable requirements are established. Some exceptions exist as a few units may have both site-wide requirements and unit specific requirements.

Other conditions. The other entries under special terms and conditions are in general terms referring to compliance with the more detailed data listed in the attachments.

Attachments

Applicable Requirements Summary. The first attachment, the Applicable Requirements Summary, has two tables, addressing unit specific requirements. The first table, the Unit Summary, includes a list of units with applicable requirements, the unit type, the applicable regulation, and the requirement driver. The intent of the requirement driver is to inform the reader that a given unit may have several different operating scenarios and the differences between those operating scenarios.

The applicable requirements summary table provides the detailed citations of the rules that apply to the various units. For each unit and operating scenario, there is an added modifier called the "index number," detailed citations specifying monitoring and testing requirements, recordkeeping requirements, and reporting requirements. The data for this table are based on data supplied by the applicant on the OP-SUM and various OP-UA forms.

Additional Monitoring Requirement. The next attachment includes additional monitoring the applicant must perform to ensure compliance with the applicable standard. Compliance assurance monitoring (CAM) is often required to provide a reasonable assurance of compliance with applicable emission limitations/standards for large emission units that use control devices to achieve compliance with applicant requirements. When necessary, periodic monitoring (PM) requirements are specified for certain parameters (i.e. feed rates, flow rates, temperature, fuel type and consumption, etc.) to determine if a term and condition or emission unit is operating within specified limits to control emissions. These additional monitoring approaches may be required for two reasons. First, the applicable rules do not adequately specify monitoring requirements (exception- Maximum Achievable Control Technology Standards (MACTs) generally have sufficient monitoring), and second, monitoring may be required to fill gaps in the monitoring requirements of certain applicable requirements. In situations where the NSR permit is the applicable requirement requiring extra monitoring for a specific emission unit, the preferred solution is to have the monitoring requirements in the NSR permit updated so that all NSR requirements are consolidated in the NSR permit.

Permit Shield. A permit may or may not have a permit shield, depending on whether an applicant has applied for, and justified the granting of, a permit shield. A permit shield is a special condition included in the permit document stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirement(s) or specified applicable state-only requirement(s).

New Source Review Authorization References. All activities which are related to emissions in the state of Texas must have a NSR authorization prior to beginning construction. This section lists all units in the permit and the NSR authorization that allowed the unit to be constructed or modified. Units that do not have unit specific applicable requirements other than the NSR authorization do not need to be listed in this attachment. While NSR permits are not physically a part of the Title V permit, they are legally incorporated into the Title V permit by reference. Those NSR permits whose emissions exceed certain PSD/NA thresholds must also undergo a Federal review of federally regulated pollutants in addition to review for state regulated pollutants.

Compliance Plan. A permit may have a compliance schedule attachment for listing corrective actions plans for any emission unit that is out of compliance with an applicable requirement.

Alternative Requirements. This attachment will list any alternative monitoring plans or alternative means of compliance for applicable requirements that have been approved by the EPA Administrator and/or the TCEQ Executive Director.

Appendix A

Acronym list. This attachment lists the common acronyms used when discussing the FOPs.

Stationary vents subject to 30 TAC Chapter 111, Subchapter A, § 111.111(a)(1)(B) addressed in the Special Terms and Conditions

The site contains stationary vents with a flowrate less than 100,000 actual cubic feet per minute (acfm) and constructed after January 31, 1972 which are limited, over a six-minute average, to 20% opacity as required by 30 TAC § 111.111(a)(1)(B). As a site may have a large number of stationary vents that fall into this category, they are not required to be listed individually in the permit's Applicable Requirement Summary. This is consistent with EPA's White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995, that states that requirements that apply identically to emission units at a site can be treated on a generic basis such as source-wide opacity limits.

Periodic monitoring is specified in Special Term and Condition 3 for stationary vents subject to 30 TAC § 111.111(a)(1)(B) to verify compliance with the 20% opacity limit. These vents are not expected to produce visible emissions during normal operation. The TCEQ evaluated the probability of these sources violating the opacity standards and determined that there is a very low potential that an opacity standard would be exceeded. It was determined that continuous monitoring for these sources is not warranted as there would be very limited environmental benefit in continuously monitoring sources that have a low potential to produce visible emissions. Therefore, the TCEQ set the visible observation monitoring frequency for these sources to once per calendar quarter.

The TCEQ has exempted vents that are not capable of producing visible emissions from periodic monitoring requirements. These vents include sources of colorless VOCs, non-fuming liquids, and other materials that cannot produce emissions that obstruct the transmission of light. Passive ventilation vents, such as plumbing vents, are also included in this category. Since this category of vents are not capable of producing opacity due to the physical or chemical characteristics of the emission source, periodic monitoring is not required as it would not yield any additional data to assure compliance with the 20% opacity standard of 30 TAC § 111.111(a)(1)(B).

In the event that visible emissions are detected, either through the quarterly observation or other credible evidence, such as observations from company personnel, the permit holder shall either report a deviation or perform a Test Method 9 observation to determine the opacity consistent with the 6-minute averaging time specified in 30 TAC § 111.111(a)(1)(B). An additional provision is included to monitor combustion sources more frequently than quarterly if alternate fuels are burned for periods greater than 24 consecutive hours. This will address possible emissions that may arise when switching fuel types.

Federal Regulatory Applicability Determinations

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	No
Nonattainment New Source Review (NNSR)	No
Minor NSR	Yes

Regulatory Program	Applicability (Yes/No)
40 CFR Part 60 - New Source Performance Standards	Yes
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)	No
40 CFR Part 63 - NESHAPs for Source Categories	Yes
Title IV (Acid Rain) of the Clean Air Act (CAA)	No
Title V (Federal Operating Permits) of the CAA	Yes
Title VI (Stratospheric Ozone Protection) of the CAA	No
CSAPR (Cross-State Air Pollution Rule)	No

Basis for Applying Permit Shields

An operating permit applicant has the opportunity to specifically request a permit shield to document that specific applicable requirements do not apply to emission units in the permit. A permit shield is a special condition stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements. A permit shield has been requested in the application for specific emission units. For the permit shield requests that have been approved, the basis of determination for regulations that the owner/operator need not comply with are located in the "Permit Shield" attachment of the permit.

Insignificant Activities

In general, units not meeting the criteria for inclusion on either Form OP-SUM or Form OP-REQ1 are not required to be addressed in the operating permit application. Examples of these types of units include, but are not limited to, the following:

- 1. Office activities such as photocopying, blueprint copying, and photographic processes.
- 2. Sanitary sewage collection and treatment facilities other than those used to incinerate wastewater treatment plant sludge. Stacks or vents for sanitary sewer plumbing traps are also included.
- 3. Food preparation facilities including, but not limited to, restaurants and cafeterias used for preparing food or beverages primarily for consumption on the premises.
- 4. Outdoor barbecue pits, campfires, and fireplaces.
- 5. Laundry dryers, extractors, and tumblers processing bedding, clothing, or other fabric items generated primarily at the premises. This does not include emissions from dry cleaning systems using perchloroethylene or petroleum solvents.
- 6. Facilities storing only dry, sweet natural gas, including natural gas pressure regulator vents.
- 7. Any air separation or other industrial gas production, storage, or packaging facility. Industrial gases, for purposes of this list, include only oxygen, nitrogen, helium, neon, argon, krypton, and xenon.
- 8. Storage and handling of sealed portable containers, cylinders, or sealed drums.
- 9. Vehicle exhaust from maintenance or repair shops.
- 10. Storage and use of non-VOC products or equipment for maintaining motor vehicles operated at the site (including but not limited to, antifreeze and fuel additives).
- 11. Air contaminant detectors and recorders, combustion controllers and shut-off devices, product analyzers, laboratory analyzers, continuous emissions monitors, other analyzers and monitors, and emissions associated with sampling activities. Exception to this category includes sampling activities that are deemed fugitive emissions and under a regulatory leak detection and repair program.

- 12. Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including but not limited to, assorted vacuum producing devices and laboratory fume hoods.
- 13. Steam vents, steam leaks, and steam safety relief valves, provided the steam (or boiler feedwater) has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 14. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 15. Well cellars.
- 16. Fire or emergency response equipment and training, including but not limited to, use of fire control equipment including equipment testing and training, and open burning of materials or fuels associated with firefighting training.
- 17. Crucible or pot furnaces with a brim full capacity of less than 450 cubic inches of any molten metal.
- 18. Equipment used exclusively for the melting or application of wax.
- 19. All closed tumblers used for the cleaning or deburring of metal products without abrasive blasting, and all open tumblers with a batch capacity of 1,000 lbs. or less.
- 20. Shell core and shell mold manufacturing machines.
- 21. Sand or investment molds with a capacity of 100 lbs. or less used for the casting of metals;
- 22. Equipment used for inspection of metal products.
- 23. Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
- 24. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
- 25. Battery recharging areas.
- 26. Brazing, soldering, or welding equipment.

Determination of Applicable Requirements

The tables below include the applicability determinations for the emission units, the index number(s) where applicable, and all relevant unit attribute information used to form the basis of the applicability determination. The unit attribute information is a description of the physical properties of an emission unit which is used to determine the requirements to which the permit holder must comply. For more information about the descriptions of the unit attributes specific Unit Attribute Forms may be viewed at www.tceq.texas.gov/permitting/air/nav/air_all_ua_forms.html.

A list of unit attribute forms is included at the end of this document. Some examples of unit attributes include construction date; product stored in a tank; boiler fuel type; etc.. Generally, multiple attributes are needed to determine the requirements for a given emission unit and index number. The table below lists these attributes in the column entitled "Basis of Determination." Attributes that demonstrate that an applicable requirement applies will be the factual basis for the specific citations in an applicable requirement that apply to a unit for that index number. The TCEQ Air Permits Division has developed flowcharts for determining applicability of state and federal regulations based on the unit attribute information in a Decision Support System (DSS). These flowcharts can be accessed via the internet at www.tceq.texas.gov/permitting/air/nav/air_supportsys.html. The Air Permits Division staff may also be contacted for assistance at (512) 239-1250.

The attributes for each unit and corresponding index number provide the basis for determining the specific legal citations in an applicable requirement that apply, including emission limitations or standards, monitoring, recordkeeping, and reporting. The rules were found to apply or not apply by using the unit attributes as answers to decision questions found in the flowcharts of the DSS. Some additional attributes indicate which legal citations of a rule apply. The legal citations that apply to each emission unit may be found in the Applicable Requirements Summary table of the draft permit. There may be some entries or rows of units and rules not found in the permit, or if the permit contains a permit shield, repeated in the permit shield area. These are sets of attributes that describe negative applicability, or; in other words, the reason why a potentially applicable requirement does not apply.

If applicability determinations have been made which differ from the available flowcharts, an explanation of the decisions involved in the applicability determination is specified in the column "Changes and Exceptions to RRT." If there were no exceptions to the DSS, then this column has been removed.

The draft permit includes all emission limitations or standards, monitoring, recordkeeping and reporting required by each applicable requirement. If an applicable requirement does not require monitoring, recordkeeping, or reporting, the word

"None" will appear in the Applicable Requirements Summary table. If additional periodic monitoring is required for an applicable requirement, it will be explained in detail in the portion of this document entitled "Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected."

When attributes demonstrate that a unit is not subject to an applicable requirement, the applicant may request a permit shield for those items. The portion of this document entitled "Basis for Applying Permit Shields" specifies which units, if any, have a permit shield.

Operational Flexibility

When an emission unit has multiple operating scenarios, it will have a different index number associated with each operating condition. This means that units are permitted to operate under multiple operating conditions. The applicable requirements for each operating condition are determined by a unique set of unit attributes. For example, a tank may store two different products at different points in time. The tank may, therefore, need to comply with two distinct sets of requirements, depending on the product that is stored. Both sets of requirements are included in the permit, so that the permit holder may store either product in the tank.

Determination of Applicable Requirements

Unit ID	Regulation	Index Number	Basis of Determination*
DEHY-01	40 CFR Part 63, Subpart HH	63HH-0001	Alternate Means of Emission Limitation (AMEL) = The EPA Administrator has not approved an alternate means of emission limitation in accordance with 40 CFR § 63.777 or no alternate has been requested. HAP Source = Stationary of source of HAPs that is not a major source as defined in 40 CFR § 63.761. Affected Source Type = Triethylene glycol (TEG) dehydration unit not located within an UA plus offset and UC boundary. Area Source Exemption = Actual average emissions of benzene from the TEG unit process vent are less than 0.90 megagrams per year.
ENG-01A	40 CFR Part 60, Subpart JJJJ	60JJJJ-0001	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006. Manufactured Date = Date of manufacture is prior to January 1, 2008. Test Cell = The SI ICE is not being tested at an engine test cell/stand. Temp Replacement = The SI ICE is not acting as a temporary replacement. Horsepower = Maximum engine power greater than or equal to 500 HP and less than 1350 HP. Fuel = SI ICE that uses natural gas. Lean Burn = The SI ICE is a lean-burn engine. Commencing = SI ICE that is commencing new construction.
ENG-01A	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-0001	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2. Brake HP = Stationary RICE with a brake HP greater than 500 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.
ENG-02	40 CFR Part 60, Subpart JJJJ	60JJJJ-0002	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006. Manufactured Date = Date of manufacture is on or after July 1, 2010. Test Cell = The SI ICE is not being tested at an engine test cell/stand. Certified = Purchased a non-certified SI ICE. Temp Replacement = The SI ICE is not acting as a temporary replacement. Horsepower = Maximum engine power greater than or equal to 1350 HP. Fuel = SI ICE that uses natural gas. Service = SI ICE is a non-emergency engine. Commencing = SI ICE that is commencing new construction.
ENG-02	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-0001	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2. Brake HP = Stationary RICE with a brake HP greater than 500 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.

Unit ID	Regulation	Index Number	Basis of Determination*
ENG-03	40 CFR Part 60, Subpart JJJJ	60JJJJ-0003	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is on or after July 1, 2007 to June 30, 2010.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Certified = Purchased a non-certified SI ICE.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than or equal to 1350 HP.
			Fuel = SI ICE that uses natural gas.
			Service = SI ICE is a non-emergency engine.
			Commencing = SI ICE that is commencing new construction.
ENG-03	40 CFR Part 63, Subpart	63ZZZZ-0001	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	ZZZZ		Brake HP = Stationary RICE with a brake HP greater than 500 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.
ENG-04	40 CFR Part 60, Subpart JJJJ	60JJJJ-0002	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is on or after July 1, 2010.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Certified = Purchased a non-certified SI ICE.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than or equal to 1350 HP.
			Fuel = SI ICE that uses natural gas.
			Service = SI ICE is a non-emergency engine.
			Commencing = SI ICE that is commencing new construction.
ENG-04	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-0001	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
			Brake HP = Stationary RICE with a brake HP greater than 500 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.

Unit ID	Regulation	Index Number	Basis of Determination*
ENG-05A	40 CFR Part 60, Subpart	60JJJJ-0003	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is on or after July 1, 2007 to June 30, 2010.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Certified = Purchased a non-certified SI ICE.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than or equal to 1350 HP.
			Fuel = SI ICE that uses natural gas.
			Service = SI ICE is a non-emergency engine.
			Commencing = SI ICE that is commencing new construction.
ENG-05A	40 CFR Part 63, Subpart	63ZZZZ-0001	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	ZZZZ		Brake HP = Stationary RICE with a brake HP greater than 500 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.
ENG-06	40 CFR Part 60, Subpart	60JJJJ-0002	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is on or after July 1, 2010.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Certified = Purchased a non-certified SI ICE.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than or equal to 1350 HP.
			Fuel = SI ICE that uses natural gas.
			Service = SI ICE is a non-emergency engine.
			Commencing = SI ICE that is commencing new construction.
ENG-06	40 CFR Part 63, Subpart	63ZZZZ-0001	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	ZZZZ		Brake HP = Stationary RICE with a brake HP greater than 500 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.

Unit ID	Regulation	Index Number	Basis of Determination*
ENG-07A	40 CFR Part 60, Subpart JJJJ	60JJJJ-0002	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is on or after July 1, 2010.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Certified = Purchased a non-certified SI ICE.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than or equal to 1350 HP.
			Fuel = SI ICE that uses natural gas.
			Service = SI ICE is a non-emergency engine.
			Commencing = SI ICE that is commencing new construction.
ENG-07A	40 CFR Part 63, Subpart	63ZZZZ-0001	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	ZZZZ		Brake HP = Stationary RICE with a brake HP greater than 500 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.
ENG-08	40 CFR Part 60, Subpart	60JJJJ-0004	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification prior to June 12, 2006.
ENG-08	40 CFR Part 63, Subpart	63ZZZZ-0002	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	ZZZZ		Brake HP = Stationary RICE with a brake HP greater than 500 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after December 19, 2002, but before June 12, 2006.
			Nonindustrial Emergency Engine = Stationary RICE is not defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE.
			Service Type = Normal use.
			Stationary RICE Type = Remote 4 stroke spark ignited lean burn engine.
ENG-09	40 CFR Part 60, Subpart	60JJJJ-0007	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is prior to July 1, 2007.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than or equal to 1350 HP.
			Fuel = SI ICE that uses natural gas.
			Commencing = SI ICE that is commencing new construction.
ENG-09	40 CFR Part 63, Subpart	63ZZZZ-0001	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	ZZZZ		Brake HP = Stationary RICE with a brake HP greater than 500 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.

Unit ID	Regulation	Index Number	Basis of Determination*
ENG-11	40 CFR Part 60, Subpart	60JJJJ-0005	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is on or after July 1, 2008.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Certified = Purchased a non-certified SI ICE.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than 25 HP and less than 100 HP.
			Fuel = SI ICE that uses natural gas.
			Service = SI ICE is a non-emergency engine.
			Severe Duty = The SI ICE is not a severe-duty engine.
			Commencing = SI ICE that is commencing new construction.
ENG-11	40 CFR Part 63, Subpart	63ZZZZ-0003	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	ZZZZ		Brake HP = Stationary RICE with a brake HP less than 100 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.
ENG-12	40 CFR Part 60, Subpart	60JJJJ-0005	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is on or after July 1, 2008.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Certified = Purchased a non-certified SI ICE.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than 25 HP and less than 100 HP.
			Fuel = SI ICE that uses natural gas.
			Service = SI ICE is a non-emergency engine.
			Severe Duty = The SI ICE is not a severe-duty engine.
			Commencing = SI ICE that is commencing new construction.
ENG-12	40 CFR Part 63, Subpart	63ZZZZ-0003	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	ZZZZ		Brake HP = Stationary RICE with a brake HP less than 100 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.

Unit ID	Regulation	Index Number	Basis of Determination*
ENG-13	40 CFR Part 60, Subpart	60JJJJ-0002	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is on or after July 1, 2010.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Certified = Purchased a non-certified SI ICE.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than or equal to 1350 HP.
			Fuel = SI ICE that uses natural gas.
			Service = SI ICE is a non-emergency engine.
			Commencing = SI ICE that is commencing new construction.
ENG-13	40 CFR Part 63, Subpart	63ZZZZ-0001	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	ZZZZ		Brake HP = Stationary RICE with a brake HP greater than 500 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.
ENGVRU-01	40 CFR Part 60, Subpart	60JJJJ-0006	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.
			Manufactured Date = Date of manufacture is prior to July 1, 2008.
			Test Cell = The SI ICE is not being tested at an engine test cell/stand.
			Temp Replacement = The SI ICE is not acting as a temporary replacement.
			Horsepower = Maximum engine power greater than or equal to 100 HP and less than 500 HP.
			Fuel = SI ICE that uses natural gas.
			Commencing = SI ICE that is commencing new construction.
ENGVRU-01	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-0004	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2. Brake HP = Stationary RICE with a brake HP greater than or equal to 100 HP and less than 250 HP. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.
FLR-01	30 TAC Chapter 111, Visible Emissions	R1111-0001	Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1. Emergency/Upset Conditions Only = Flare is used under conditions other than emergency or upset conditions.
FLR-02	30 TAC Chapter 111, Visible Emissions	R1111-0001	Acid Gases Only = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1. Emergency/Upset Conditions Only = Flare is used under conditions other than emergency or upset conditions.
FUG	40 CFR Part 60, Subpart KKK	60KKK-0001	Facility Type = Facility neither a compressor nor an affected facility as defined in 60.630(a)(3).
FUG	40 CFR Part 60, Subpart OOOOa	60OOO0a-002	Construction/Reconstruction/Modification Date = After September 18, 2015. Affected Facility Type = Fugitive emissions components at a compressor station.

Unit ID	Regulation	Index Number	Basis of Determination*
FUG-PC	40 CFR Part 60, Subpart KKK	60KKK-0001	Facility Type = Facility neither a compressor nor an affected facility as defined in 60.630(a)(3).
FUG-PC	40 CFR Part 60, Subpart OOOO	600000-0001	Construction/Reconstruction/Modification Date = After August 23, 2011, and on or before September 18, 2015. Affected Facility Type = Pneumatic controller in a natural gas processing plant.
FUG-PC	40 CFR Part 60, Subpart OOOOa	600000a-0001	Construction/Reconstruction/Modification Date = After September 18, 2015. Affected Facility Type = Pneumatic controller in a natural gas processing plant.
GRP-OILTK	40 CFR Part 60, Subpart Kb	60Kb-0001	Product Stored = Petroleum (other than crude oil) or condensate stored, processed, and/or treated prior to custody transfer Storage Capacity = Capacity is less than or equal to 420,000 gallons (1,589,874 liters)
GRP-PWTK	40 CFR Part 60, Subpart Kb	60Kb-0001	Product Stored = Petroleum (other than crude oil) or condensate stored, processed, and/or treated prior to custody transfer Storage Capacity = Capacity is less than or equal to 420,000 gallons (1,589,874 liters)
LOAD	30 TAC Chapter 115, Loading and Unloading of VOC	R5211-0001	Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal. Alternate Control Requirement (ACR) = No alternate control requirements are being utilized. Product Transferred = Volatile organic compounds other than gasoline. Transfer Type = Only loading.
OILTK-29	40 CFR Part 60, Subpart Kb	60Kb-0001	Product Stored = Petroleum (other than crude oil) or condensate stored, processed, and/or treated prior to custody transfer Storage Capacity = Capacity is less than or equal to 420,000 gallons (1,589,874 liters)
OILTK-30	40 CFR Part 60, Subpart Kb	60Kb-0001	Product Stored = Petroleum (other than crude oil) or condensate stored, processed, and/or treated prior to custody transfer Storage Capacity = Capacity is less than or equal to 420,000 gallons (1,589,874 liters)

^{* -} The "unit attributes" or operating conditions that determine what requirements apply

NSR Versus Title V FOP

The state of Texas has two Air permitting programs, New Source Review (NSR) and Title V Federal Operating Permits. The two programs are substantially different both in intent and permit content.

NSR is a preconstruction permitting program authorized by the Texas Clean Air Act and Title I of the Federal Clean Air Act (FCAA). The processing of these permits is governed by 30 Texas Administrative Code (TAC) Chapter 116.111. The Title V Federal Operating Program is a federal program authorized under Title V of the FCAA that has been delegated to the state of Texas to administer and is governed by 30 TAC Chapter 122. The major differences between the two permitting programs are listed in the table below:

NSR Permit	Federal Operating Permit(FOP)
Issued Prior to new Construction or modification of an existing facility	For initial permit with application shield, can be issued after operation commences; significant revisions require approval prior to operation.
Authorizes air emissions	Codifies existing applicable requirements, does not authorize new emissions
Ensures issued permits are protective of the environment and human health by conducting a health effects review and that requirement for best available control technology (BACT) is implemented.	Applicable requirements listed in permit are used by the inspectors to ensure proper operation of the site as authorized. Ensures that adequate monitoring is in place to allow compliance determination with the FOP.
Up to two Public notices may be required. Opportunity for public comment and contested case hearings for some authorizations.	One public notice required. Opportunity for public comments. No contested case hearings.
Applies to all point source emissions in the state.	Applies to all major sources and some non-major sources identified by the EPA.
Applies to facilities: a portion of site or individual emission sources	One or multiple FOPs cover the entire site (consists of multiple facilities)
Permits include terms and conditions under which the applicant must construct and operate its various equipment and processes on a facility basis.	Permits include terms and conditions that specify the general operational requirements of the site; and also include codification of all applicable requirements for emission units at the site.
Opportunity for EPA review for Federal Prevention of Significant Deterioration (PSD) and Nonattainment (NA) permits for major sources.	Opportunity for EPA review, Affected states review, and a Public petition period for every FOP.
Permits have a table listing maximum emission limits for pollutants	Permit has an applicable requirements table and Periodic Monitoring (PM) / Compliance Assurance Monitoring (CAM) tables which document applicable monitoring requirements.
Permits can be altered or amended upon application by company. Permits must be issued before construction or modification of facilities can begin.	Permits can be revised through several revision processes, which provide for different levels of public notice and opportunity to comment. Changes that would be significant revisions require that a revised permit be issued before those changes can be operated.
NSR permits are issued independent of FOP requirements.	FOP are independent of NSR permits, but contain a list of all NSR permits incorporated by reference

New Source Review Requirements

Below is a list of the New Source Review (NSR) permits for the permitted area. These NSR permits are incorporated by reference into the operating permit and are enforceable under it. These permits can be found in the main TCEQ file room, located on the first floor of Building E, 12100 Park 35 Circle, Austin, Texas. The Public Education Program may be contacted at 1-800-687-4040 or the Air Permits Division (APD) may be contacted at 1-512-239-1250 for help with any question.

Additionally, the site contains emission units that are permitted by rule under the requirements of 30 TAC Chapter 106, Permits by Rule. The following table specifies the permits by rule that apply to the site. All current permits by rule are contained in Chapter 106. Outdated 30 TAC Chapter 106 permits by rule may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/old106list/index106.html

Outdated Standard Exemption lists may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html

The status of air permits and applications and a link to the Air Permits Remote Document Server is located at the following Web site:

www.tceq.texas.gov/permitting/air/nav/air_status_permits.html

New Source Review Authorization References

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.				
	Authorization No.: 104730	Issuance Date: 08/11/2017		

Emission Units and Emission Points

In air permitting terminology, any source capable of generating emissions (for example, an engine or a sandblasting area) is called an Emission Unit. For purposes of Title V, emission units are specifically listed in the operating permit when they have applicable requirements other than New Source Review (NSR), or when they are listed in the permit shield table.

The actual physical location where the emissions enter the atmosphere (for example, an engine stack or a sand-blasting yard) is called an emission point. For New Source Review preconstruction permitting purposes, every emission unit has an associated emission point. Emission limits are listed in an NSR permit, associated with an emission point. This list of emission points and emission limits per pollutant is commonly referred to as the "Maximum Allowable Emission Rate Table", or "MAERT" for short. Specifically, the MAERT lists the Emission Point Number (EPN) that identifies the emission point, followed immediately by the Source Name, identifying the emission unit that is the source of those emissions on this table.

Thus, by reference, an emission unit in a Title V operating permit is linked by reference number to an NSR authorization, and its related emission point.

Monitoring Sufficiency

Federal and state rules, 40 CFR § 70.6(a)(3)(i)(B) and 30 TAC § 122.142(c) respectively, require that each federal operating permit include additional monitoring for applicable requirements that lack periodic or instrumental monitoring (which may include recordkeeping that serves as monitoring) that yields reliable data from a relevant time period that are representative of the emission unit's compliance with the applicable emission limitation or standard. Furthermore, the federal operating permit must include compliance assurance monitoring (CAM) requirements for emission sources that meet the applicability criteria of 40 CFR Part 64 in accordance with 40 CFR § 70.6(a)(3)(i)(A) and 30 TAC § 122.604(b).

With the exception of any emission units listed in the Periodic Monitoring or CAM Summaries in the FOP, the TCEQ Executive Director has determined that the permit contains sufficient monitoring, testing, recordkeeping, and reporting requirements that assure compliance with the applicable requirements. If applicable, each emission unit that requires additional monitoring in the form of periodic monitoring or CAM is described in further detail under the Rationale for CAM/PM Methods Selected section following this paragraph.

Rationale for Compliance Assurance Monitoring (CAM)

Compliance Assurance Monitoring (CAM):

Compliance Assurance Monitoring (CAM) is a federal monitoring program established under Title 40 Code of Federal Regulations Part 64 (40 CFR Part 64).

Emission units are subject to CAM requirements if they meet the following criteria:

- 1. the emission unit is subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement;
- 2. the emission unit uses a control device to achieve compliance with the emission limitation or standard specified in the applicable requirement; and
- 3. the emission unit has the pre-control device potential to emit greater than or equal to the amount in tons per year for a site to be classified as a major source.

The following table(s) identify the emission unit(s) that are subject to CAM:

Part 63, Subparts G, DD, and HH; and 30 TAC Chapter 115.

Unit/Group/Process Information		
ID No.: DEHY-01		
Control Device ID No.: HTR-13	Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is less than 44MW)	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: VOC	Main Standard: 104730	
Monitoring Information		
Indicator: Combustion Temperature / Exhaust Gas Temperature		
Minimum Frequency: Once per day		
Averaging Period: n/a*		
Deviation Limit: Minimum combustion temperature = 350 degrees F		
Basis of CAM: It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a minimum temperature for boilers/process heaters. This		

minimum temperature must be maintained in order for the proper destruction efficiency. Operation below the minimum combustion temperature will result in incomplete combustion and potential noncompliance with emission limitations and/or standards. The monitoring of combustion temperature of a boiler/process heater is commonly required in federal and state rules, including: 40 CFR Part 60, Subparts III, NNN, and RRR; 40 CFR Part 61, Subparts BB and FF; 40 CFR

^{*}The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

Unit/Group/Process Information		
ID No.: DEHY-01		
Control Device ID No.: FLR-02	Control Device Type: Flare	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: VOC	Main Standard: 104730	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Continuous		
Averaging Period: n/a		
Deviation Limit: No pilot flame		

Unit/Group/Process Information		
ID No.: ENG-02		
Control Device ID No.: ENG-02-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: CO	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust CO concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 3.0 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-02		
Control Device ID No.: ENG-02-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: NOX	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust NOx concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 0.5 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-04		
Control Device ID No.: ENG-04-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: CO	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust CO concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 3.0 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-04		
Control Device ID No.: ENG-04-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: NO _X	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust NOx concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 0.5 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-05A		
Control Device ID No.: ENG-05A-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: CO	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust CO concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 3.0 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-05A		
Control Device ID No.: ENG-05A-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: NO _X	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust NOx concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 0.5 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-06		
Control Device ID No.: ENG-06-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: CO	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust CO concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 3.0 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-06		
Control Device ID No.: ENG-06-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: NO _X	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust NOx concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 0.5 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-07A		
Control Device ID No.: ENG-07A-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: CO	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust CO concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 3.0 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-07A		
Control Device ID No.: ENG-07A-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: NO _X	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust NOx concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 0.5 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-13		
Control Device ID No.: ENG-13-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: CO	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust CO concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 3.0 g/hp-hr		

Unit/Group/Process Information		
ID No.: ENG-13		
Control Device ID No.: ENG-13-CAT	Control Device Type: Catalytic Converter	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: NO _X	Main Standard: 104730	
Monitoring Information		
Indicator: Exhaust NOx concentration		
Minimum Frequency: once per quarter (portable analyzer), earlier of 8,760 hours or 2 years (performance test)		
Averaging Period: 30 minutes		
Deviation Limit: 0.5 g/hp-hr		

Unit/Group/Process Information		
ID No.: OILTK-29		
Control Device ID No.: FLR-02	Control Device Type: Flare	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: VOC	Main Standard: 104730	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Continuous		
Averaging Period: n/a		
Deviation Limit: No pilot flame		

Unit/Group/Process Information		
ID No.: OILTK-30		
Control Device ID No.: FLR-02	Control Device Type: Flare	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: VOC	Main Standard: 104730	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Continuous		
Averaging Period: n/a		
Deviation Limit: No pilot flame		

Unit/Group/Process Information		
ID No.: PROD-GAS		
Control Device ID No.: FLR-01	Control Device Type: Flare	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: VOC	Main Standard: 104730	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Continuous		
Averaging Period: n/a		
Deviation Limit: No pilot flame		

Unit/Group/Process Information		
ID No.: VRT-GAS		
Control Device ID No.: FLR-02	Control Device Type: Flare	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 116, Standard Permits	SOP Index No.: N/A	
Pollutant: VOC	Main Standard: 104730	
Monitoring Information		
Indicator: Pilot Flame		
Minimum Frequency: Continuous		
Averaging Period: n/a		
Deviation Limit: No pilot flame		

Available Unit Attribute Forms

- OP-UA1 Miscellaneous and Generic Unit Attributes
- OP-UA2 Stationary Reciprocating Internal Combustion Engine Attributes
- OP-UA3 Storage Tank/Vessel Attributes
- OP-UA4 Loading/Unloading Operations Attributes
- OP-UA5 Process Heater/Furnace Attributes
- OP-UA6 Boiler/Steam Generator/Steam Generating Unit Attributes
- OP-UA7 Flare Attributes
- **OP-UA8 Coal Preparation Plant Attributes**
- OP-UA9 Nonmetallic Mineral Process Plant Attributes
- OP-UA10 Gas Sweetening/Sulfur Recovery Unit Attributes
- OP-UA11 Stationary Turbine Attributes
- OP-UA12 Fugitive Emission Unit Attributes
- OP-UA13 Industrial Process Cooling Tower Attributes
- OP-UA14 Water Separator Attributes
- OP-UA15 Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes
- OP-UA16 Solvent Degreasing Machine Attributes
- OP-UA17 Distillation Unit Attributes
- **OP-UA18 Surface Coating Operations Attributes**
- OP-UA19 Wastewater Unit Attributes
- OP-UA20 Asphalt Operations Attributes
- OP-UA21 Grain Elevator Attributes
- OP-UA22 Printing Attributes
- OP-UA24 Wool Fiberglass Insulation Manufacturing Plant Attributes
- OP-UA25 Synthetic Fiber Production Attributes
- OP-UA26 Electroplating and Anodizing Unit Attributes
- OP-UA27 Nitric Acid Manufacturing Attributes
- OP-UA28 Polymer Manufacturing Attributes
- OP-UA29 Glass Manufacturing Unit Attributes
- OP-UA30 Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mill Attributes
- OP-UA31 Lead Smelting Attributes
- OP-UA32 Copper and Zinc Smelting/Brass and Bronze Production Attributes
- OP-UA33 Metallic Mineral Processing Plant Attributes
- OP-UA34 Pharmaceutical Manufacturing
- OP-UA35 Incinerator Attributes
- OP-UA36 Steel Plant Unit Attributes
- OP-UA37 Basic Oxygen Process Furnace Unit Attributes
- OP-UA38 Lead-Acid Battery Manufacturing Plant Attributes
- OP-UA39 Sterilization Source Attributes
- OP-UA40 Ferroalloy Production Facility Attributes
- OP-UA41 Dry Cleaning Facility Attributes
- OP-UA42 Phosphate Fertilizer Manufacturing Attributes
- OP-UA43 Sulfuric Acid Production Attributes
- OP-UA44 Municipal Solid Waste Landfill/Waste Disposal Site Attributes
- OP-UA45 Surface Impoundment Attributes
- OP-UA46 Epoxy Resins and Non-Nylon Polyamides Production Attributes
- OP-UA47 Ship Building and Ship Repair Unit Attributes
- OP-UA48 Air Oxidation Unit Process Attributes
- OP-UA49 Vacuum-Producing System Attributes
- OP-UA50 Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
- OP-UA51 Dryer/Kiln/Oven Attributes
- OP-UA52 Closed Vent Systems and Control Devices
- OP-UA53 Beryllium Processing Attributes

- OP-UA54 Mercury Chlor-Alkali Cell Attributes
- OP-UA55 Transfer System Attributes
- OP-UA56 Vinyl Chloride Process Attributes
- OP-UA57 Cleaning/Depainting Operation Attributes
- OP-UA58 Treatment Process Attributes
- OP-UA59 Coke By-Product Recovery Plant Attributes
- OP-UA60 Chemical Manufacturing Process Unit Attributes
- OP-UA61 Pulp, Paper, or Paperboard Producing Process Attributes
- OP-UA62 Glycol Dehydration Unit Attributes
- OP-UA63 Vegetable Oil Production Attributes